

Table 3-2

Results of likelihood ratio test and parameter estimates with their standard errors (in parentheses) for the simplified ($H_0: P_A = P_D$) and generalized ($H_A: P_A \neq P_D$) models for chinook salmon survival at 1 h and 48 h at spillbays 3 (unmodified) and 4 (I-slot) of The Dalles Dam, October-November 1995.

Parameter	Spillbay 3: Unmodified		Spillbay 4: I-slot	
	1 h	48 h	1 h	48 h
$H_0: P_A = P_D$				
S	0.981 (0.008)	0.981 (0.008)	0.981 (0.008)	0.981 (0.0096)
P	0.996 (0.002)	0.996 (0.002)	0.996 (0.002)	0.998 (0.002)
τ	0.955 (0.017)	0.955 (0.017)	0.993 (0.013)	0.993 (0.013)
90% CI on $\hat{\tau}$	0.927 - 0.983	0.927 - 0.983	0.972 - 1.02	0.972 - 1.02
$H_A: P_A \neq P_D$				
S	0.982 (0.008)	0.982 (0.008)	0.982 (0.008)	0.982 (0.008)
P_A	0.996 (0.002)	0.996 (0.002)	0.996 (0.002)	0.996 (0.002)
P_D	1.0* (N/A)	1.0* (N/A)	1.0* (N/A)	1.0* (N/A)
τ	0.955 (0.017)	0.955 (0.017)	0.993 (0.013)	0.993 (0.013)
90% CI on $\hat{\tau}$	0.927 - 0.983	0.927 - 0.983	0.971 - 1.014	0.971 - 1.014

* Parameter value set to 1.0 when maximum likelihood estimate (MLE) exceeded admissible range.

** Likelihood ratio tests (LRT) of equal recapture probabilities of alive and dead fish could not be rejected ($P > 0.05$) for either scenario. LRT = ≤ 0.1 $P(X^2_{1,0.05} = 3.84)$.